

BEST AVAILABLE COPY

POWERED BY Dialog

NONAQUEOUS SECONDARY BATTERY (2000-123867**Publication Number:** JP 2000123867 A) , April 28, 2000**Inventors:**

- KITA FUSAJI
- IWASAKI MINAKO
- ISHIKAWA YUKI
- MATSUMOTO KAZUNOBU
- ABE KOJI
- TAKAI TSUTOMU
- HAMAMOTO SHUNICHI

Applicants

- HITACHI MAXELL LTD
- UBE IND LTD

Application Number: 10-297465 (JP 98297465) , October 20, 1998**International Class:**

- H01M-010/40
- H01M-004/02

Abstract:

PROBLEM TO BE SOLVED: To provide a nonaqueous secondary battery with high capacity and high cycle characteristics. SOLUTION: A nonaqueous secondary battery has a positive electrode 1, a negative electrode 2, and an electrolyte 4, a 4-V class active material is used in the positive electrode 1, discharge capacity per unit volume of an electrode laminate is 130 mAh/cm³ or more, and cyclic ester having C=C unsaturated bond within the ring or its derivative is contained in the electrolyte 4. As the cyclic ester having C=C unsaturated bond within the ring or its derivative, for example, vinylene carbonate, coumarin, catechol carbonate, phthalide, an alkyl group substituted vinylene carbonate, or an alkyl group substituted catechol carbonate is preferable, and its content is preferable to be 0.05-8 wt.% based on the weight of the solvent component in the electrolyte. COPYRIGHT: (C)2000,JPO

JAPIO

© 2003 Japan Patent Information Organization. All rights reserved.

Dialog® File Number 347 Accession Number 6538143